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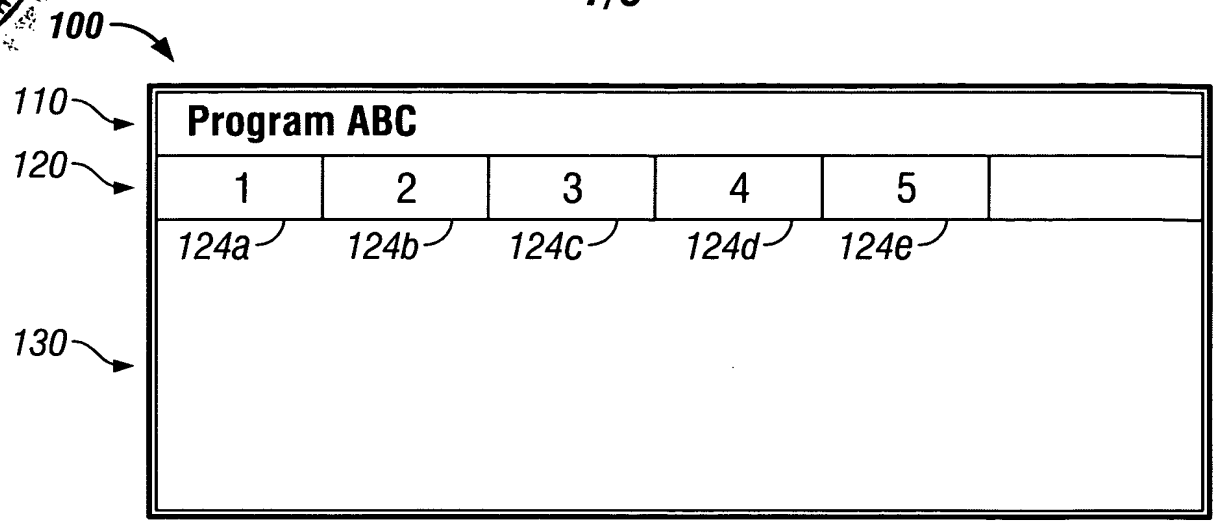

FIG. 1A

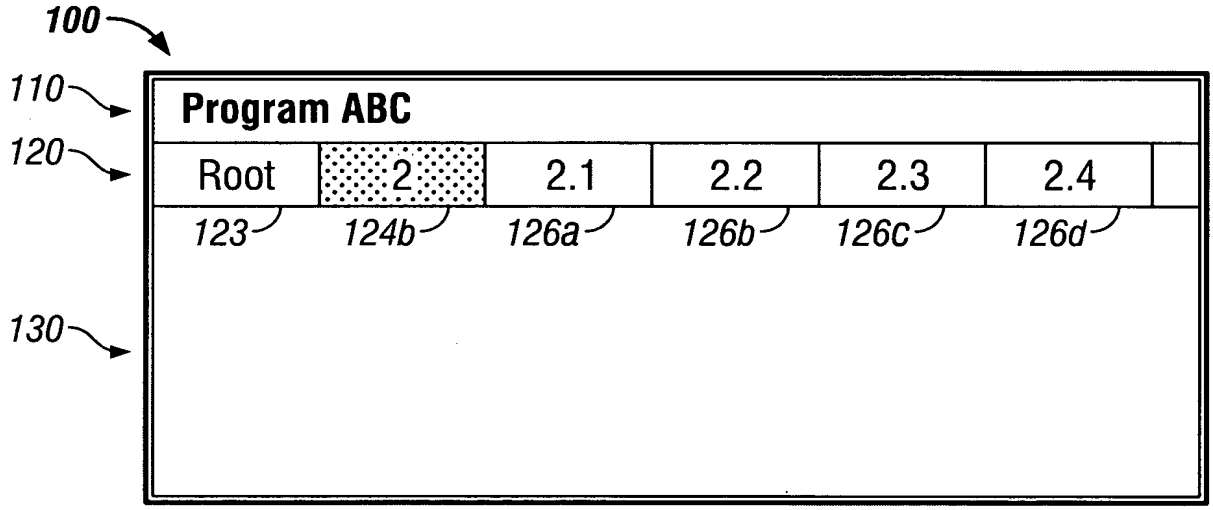

FIG. 1B

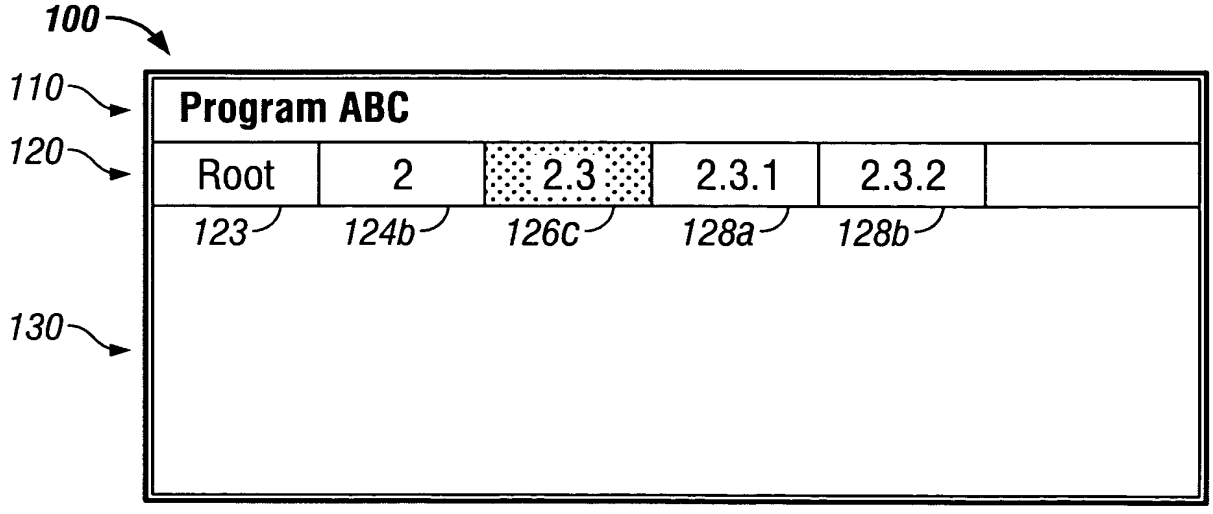

FIG. 1C

2/5

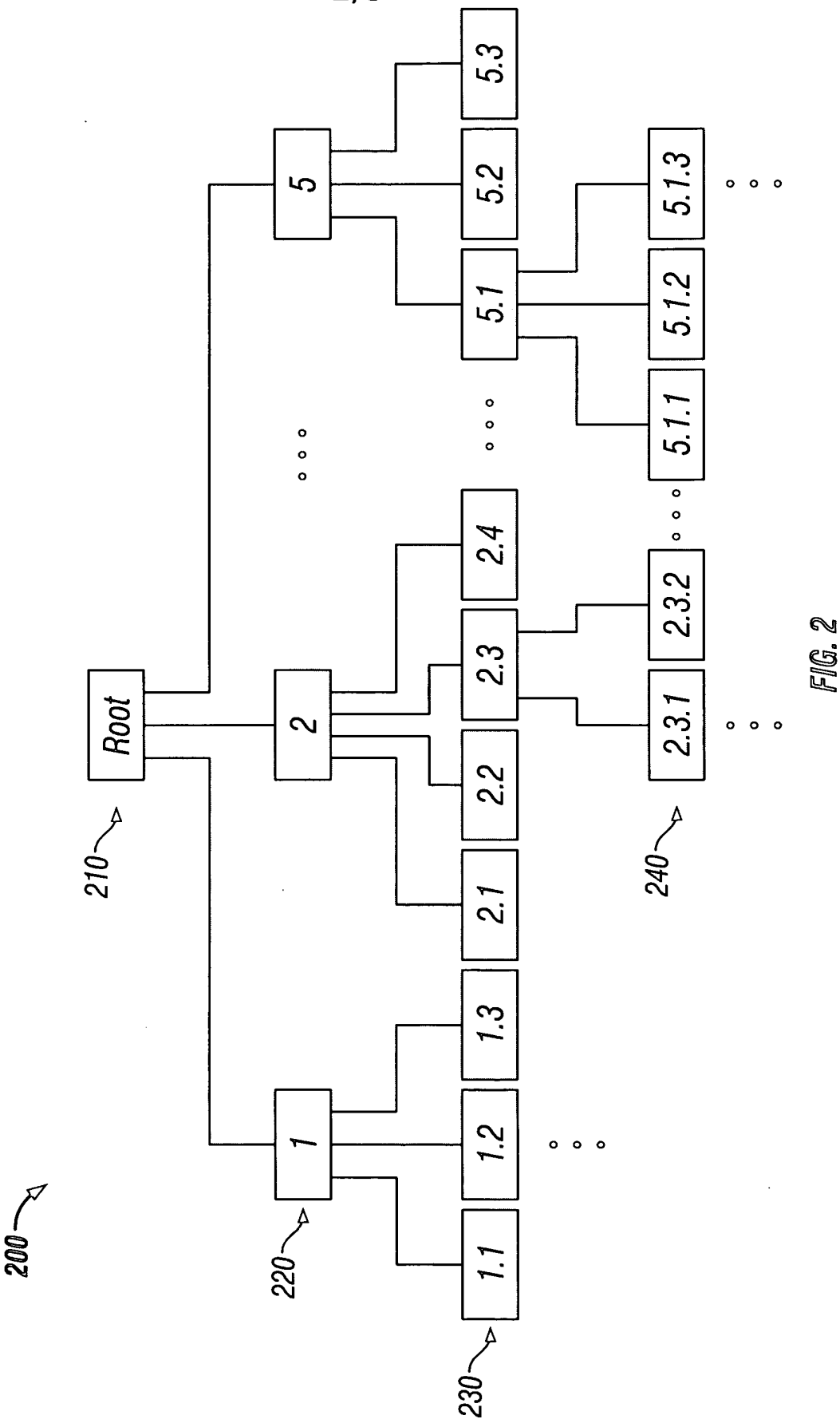
Root
1
2
5
1.1
1.2
1.3
2.1
2.2
2.3
2.4
5.1
5.2
5.3
2.3.1
2.3.2
5.1.1
5.1.2
5.1.3
200
210
220
230
240

FIG. 2

3/5

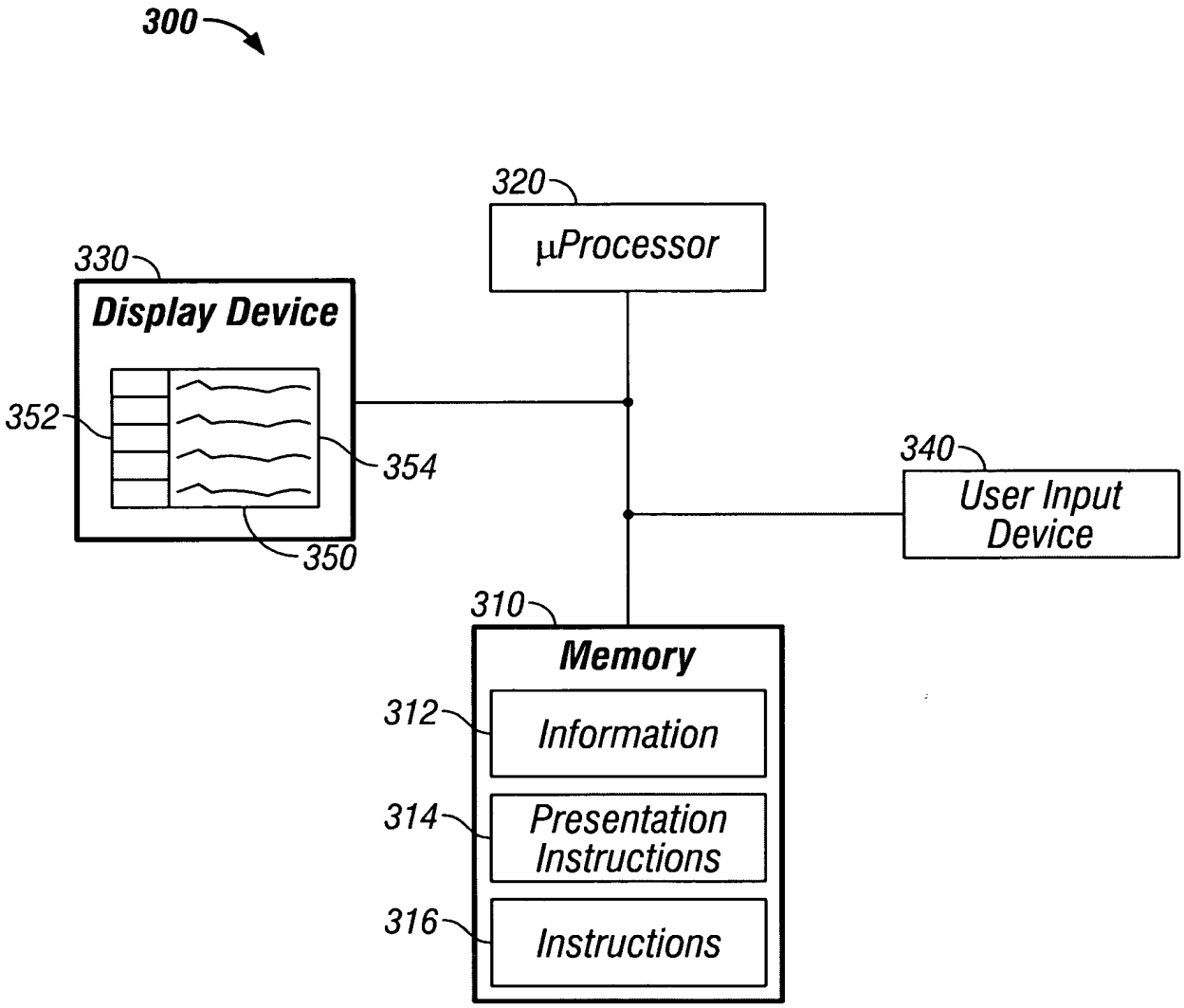
300
320
µProcessor
330
Display Device
352
354
350
340
User Input Device
310
Memory
312
Information
314
Presentation Instructions
316
Instructions

FIG. 3

4/5

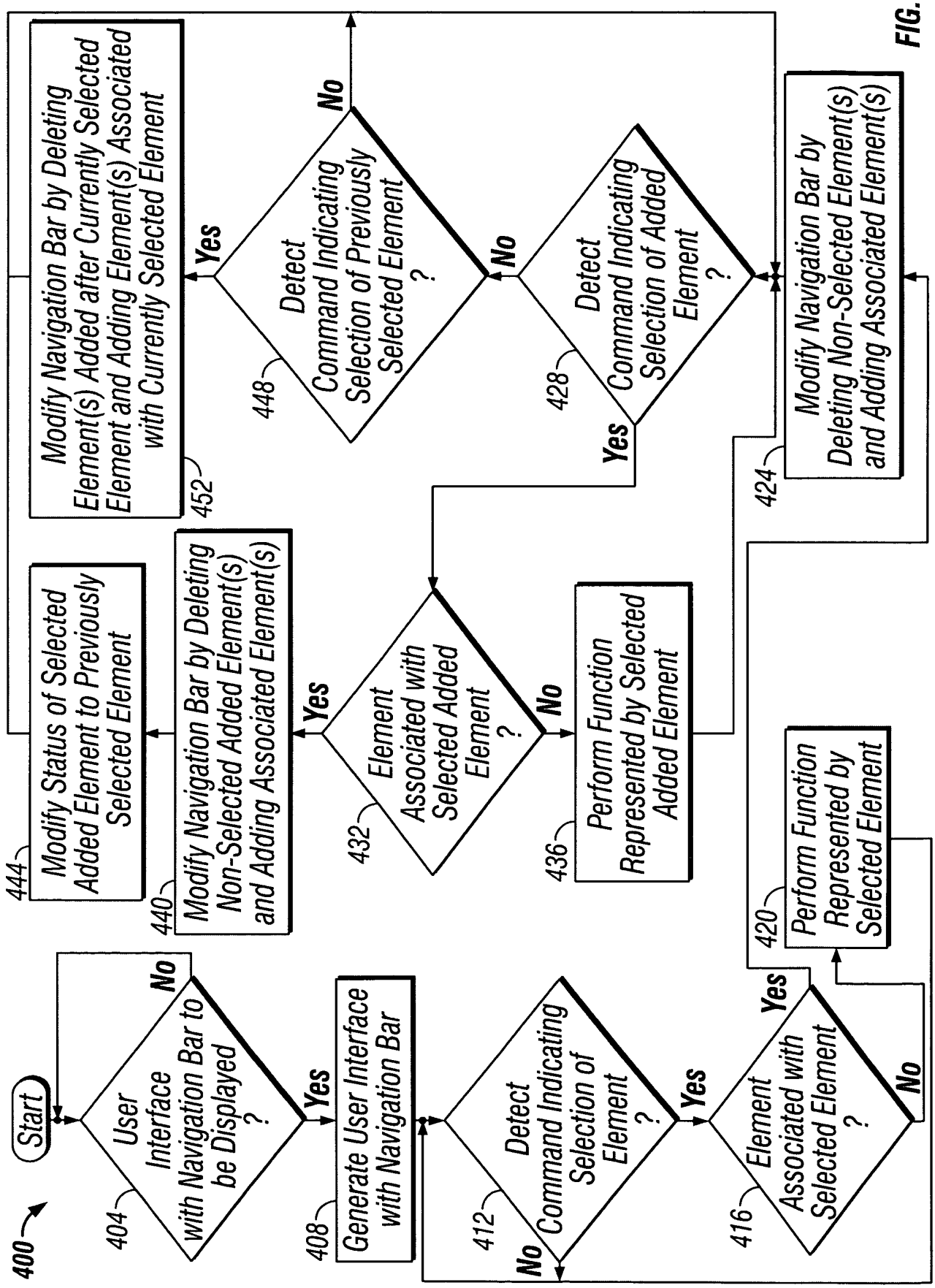
400
Start
User Interface with Navigation Bar to be Displayed ?
404
No
Yes
Generate User Interface with Navigation Bar
408
Detect Command Indicating Selection of Element ?
412
No
Yes
Element Associated with Selected Element ?
416
Yes
No
Perform Function Represented by Selected Element
420
Modify Navigation Bar by Deleting Non-Selected Element(s) and Adding Associated Element(s)
424
Detect Command Indicating Selection of Added Element ?
428
Yes
No
Element Associated with Selected Added Element ?
432
Yes
No
Perform Function Represented by Selected Added Element
436
Modify Navigation Bar by Deleting Non-Selected Added Element(s) and Adding Associated Element(s)
440
Modify Status of Selected Added Element to Previously Selected Element
444
Detect Command Indicating Selection of Previously Selected Element ?
448
Yes
No
Modify Navigation Bar by Deleting Element(s) Added after Currently Selected Element and Adding Element(s) Associated with Currently Selected Element
452

FIG. 4

5/5

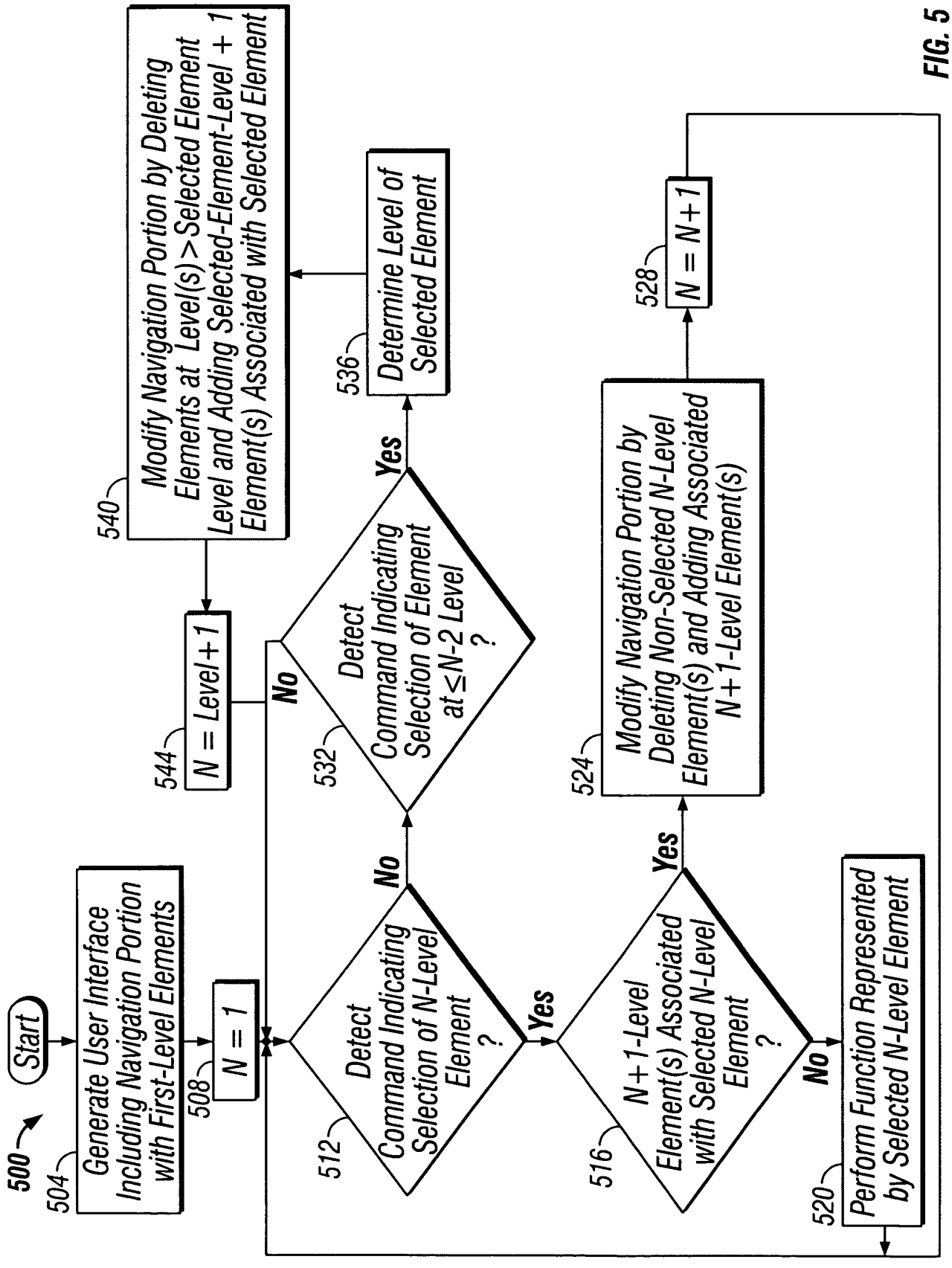
500
Start
504
Generate User Interface Including Navigation Portion with First-Level Elements
508
N = 1
512
Detect Command Indicating Selection of N-Level Element ?
No
Yes
516
N+1-Level Element(s) Associated with Selected N-Level Element ?
No
Yes
520
Perform Function Represented by Selected N-Level Element
524
Modify Navigation Portion by Deleting Non-Selected N-Level Element(s) and Adding Associated N+1-Level Element(s)
528
N = N+1
532
Detect Command Indicating Selection of Element at ≤N-2 Level ?
No
Yes
536
Determine Level of Selected Element
540
Modify Navigation Portion by Deleting Elements at Level(s) >Selected Element Level and Adding Selected-Element-Level + 1 Element(s) Associated with Selected Element
544
N = Level+1

FIG. 5